

# Fineness of Grind Gauges – Hegman, North & PCU

Can be used in accordance with:  
**ISO 1524, DIN EN ISO NF 21524,  
 ASTM D1210, ASTM D1316, DIN 53203, FTMS 141 a M.4411.1, NF T 30 046**



Precision instruments, used to determine particle size and fineness of grind of many materials including paints, pigments, inks, coatings, chocolates or other similar products.

The gauge and its scraper are made of hardened stainless steel and have one or two grooves with a graded slope (dependent on the model chosen), graduated in microns, mills, NS (Hegman) or PCU (North), the gauges have a tolerance of  $\pm 2\mu\text{m}$ .

Elcometer 2041: The Basic design of the gauge shows lateral graduations only on the side of the gauge.

Elcometer 2020: The Standard Gauge, shows graduations in microns, NS and PCU indicated on top of the gauge.

## Technical Specifications

| Model              | Range                             |             |             | Specifications    |                 |                  | Part Number |                          |
|--------------------|-----------------------------------|-------------|-------------|-------------------|-----------------|------------------|-------------|--------------------------|
|                    | $\mu\text{m}$                     | Hegman (NS) | North (PCU) | Number of Grooves | Groove Width mm | Groove Length mm |             | Graduation $\mu\text{m}$ |
| Elcometer 2041/1   | 0-15                              | -           | -           | 2                 | 12              | 127              | 1           | K0002041M001             |
| Elcometer 2041/2   | 0-25                              | -           | -           | 2                 | 12              | 127              | 2.5         | K0002041M002             |
| Elcometer 2041/3   | 0-50                              | -           | -           | 2                 | 12              | 127              | 5           | K0002041M003             |
| Elcometer 2041/4   | 0-100                             | -           | -           | 2                 | 12              | 127              | 10          | K0002041M004             |
| Elcometer 2020/3   | 0-15                              | 8 – 7       | 10 – 9      | 2                 | 12              | 127              | 1           | K0002020M003             |
| Elcometer 2020/4   | 0-25                              | 8 – 6       | 10 – 8      | 2                 | 12              | 127              | 2.5         | K0002020M004             |
| Elcometer 2020/1   | 0-50                              | 8 – 4       | 10 – 5      | 2                 | 12              | 127              | 5           | K0002020M001             |
| Elcometer 2020/2   | 0-100                             | 8 – 0       | 10 – 0      | 2                 | 12              | 127              | 10          | K0002020M002             |
| <b>Accessories</b> | Replacement Scraper for 2 grooves |             |             |                   |                 |                  |             | KT002020N001             |

## Test Method - How to use a Fineness of Grind Gauge

The material is placed on the lowest (deepest) part of the groove, and using the scraper provided, drawn up the slope in the opposite direction.

The place where a large number of particles appears indicates the particle size.

